

AMENDMENT

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Claims 1-20 (Canceled)

21. (Previously presented) A method of producing an immunogenic complex comprising a heat shock protein (hsp) coupled to a heterologous antigenic polypeptide, which method comprises:

- (a) expressing the antigenic polypeptide in a non-mammalian cell which cell has been subjected to a stimulus which causes the induction of a non-mammalian heat shock response in said cells; and
- (b) recovering the antigenic polypeptide coupled to one or more hsps from said cell or the culture medium.

22. (Canceled).

23. (Previously presented) The method according to claim 21 wherein the cell is a non-mammalian eukaryotic cell and the hsp is a non-mammalian eukaryotic hsp.

24. (Previously presented) The method according to claim 23 wherein the cell is an insect cell and the hsp is an insect hsp.

25. (Currently amended) The method according to claim 24 wherein the antigenic polypeptide is an ~~antien~~ antigen of a pathogenic organism, ~~or a fragment or derivative thereof~~.

26. (Previously presented) The method according to claim 25 wherein the pathogenic organism is a virus or a bacterium.

27. (Previously presented) The method according to claim 26 wherein the virus is a pestivirus.

28. (Currently amended) The method according to claim 27 wherein the virus is bovine viral ~~dearrhoea~~ diarrhoea virus (BVDV).

29. (Previously presented) The method according to claim 21 wherein the antigenic polypeptide is expressed in the cell by the introduction into the cell of a polynucleotide encoding the antigenic polypeptide operably linked to a regulatory control sequence capable of directing expression of the polypeptide in the cell.

30. (Previously presented) The method according to claim 29 wherein the polynucleotide is part of a virus or viral vector.

31. (Currently amended) The method according to claim 30 wherein the cell is an insect cell and the virus or viral vector is a ~~baculovirus~~ baculovirus or baculovirus vector.

32. (Withdrawn) A composition comprising an immunogenic complex comprising a heat shock protein (hsp) coupled to a heterologous antigenic polypeptide produced by the process of:

(a) expressing the antigenic polypeptide in a cell which cell has been subjected to a stimulus which causes the induction of a heat shock response in said cells; and

(b) recovering the antigenic polypeptide coupled to one or more hsps from said cell or the culture medium;

(c) introducing an acceptable carrier or diluent.

33. (Withdrawn) The composition produce by the process of claim 32 wherein the cell is a non-mammalian cell and the hsp is a non-mammalian hsp.

34. (Withdrawn) The composition produce by the process of 33 wherein the cell is a non-mammalian eukaryotic cell and the hsp is a non-mammalian eukaryotic hsp.

35. (Withdrawn) The composition produce by the process of claim 34 wherein the cell is an insect cell and the hsp is an insect hsp.

36. (Withdrawn) The composition produce by the process of claim 35 wherein the antigenic polypeptide is an antigen of a pathogenic organism, or a fragment or derivative thereof.

37. (Withdrawn) The composition produce by the process of claim 36 wherein the pathogenic organism is a virus or a bacterium.

38. (Withdrawn) The composition produce by the process of claim 37 wherein the virus is a pestivirus.

39. (Withdrawn) The composition produce by the process of claim 38 wherein the virus is bovine viral diarrhoea virus (BVDV).

40. (Withdrawn) The composition produce by the process of claim 32 wherein the antigenic polypeptide is expressed in the cell by the introduction into the cell of a polynucleotide encoding the antigenic polypeptide operably linked to a regulatory control sequence capable of directing expression of the polypeptide in the cell.

41. (Withdrawn) The composition produce by the process of claim 40 wherein the polynucleotide is part of a virus or viral vector.

42. (Withdrawn) The composition produce by the process of claim 41 wherein the cell is an insect cell and the virus or viral vector is a baculovirus or baculovirus vector.

43. (Withdrawn) A composition comprising a heat shock protein (hsp) derived from a non-mammalian eukaryote coupled to a heterologous antigenic polypeptide and an acceptable diluent or carrier, wherein the composition is capable of inducing an immune response to said antigenic polypeptide in an animal or human.

44. (Withdrawn) A composition according to claim 43 wherein the hsp is an insect hsp.

45. (Withdrawn) A composition according to claim 44 wherein the antigenic polypeptide is an antigen of a pathogenic organism, or a fragment or derivative thereof.

46. (Withdrawn) A composition according to claim 45 wherein the pathogenic organism is a virus or a bacterium.

47. (Withdrawn) A composition according to claim 46 wherein the virus is a pestivirus.

48. (Withdrawn) A composition according to claim 47 wherein the virus is bovine viral diarrhoea virus (BVDV).

49. (Withdrawn) A composition comprising a pestivirus antigen coupled to a heat shock protein.

50. (Withdrawn) A method of inducing immunocompetence in an animal against a pathogen, said method comprising the steps of administering to an animal a therapeutically effective amount of a composition according to claim 43.